Michael Zwicky Hauschild - DTU Orbit (09/02/2019)
Michael Zwicky Hauschild
Professor, Deputy Head of Division, Group Leader
Department of Management Engineering
Quantitative Sustainability Assessment
Postal address:
Diplomvej
371, 207
2800
Kgs. Lyngby
Denmark
Email: mzha@dtu.dk
Phone: 45254664
Fax: 45935556
Web address: http://www.man.dtu.dk
Web: http://www.man.dtu.dk

Research outputs:

Learning-by-doing: experience from 20 years of teaching LCA to future engineers
Research output: Research - peer-review › Journal article – Annual report year: 2019

A Framework for Development and Communication of Absolute Environmental Sustainability Assessment Methods: ASEA Method Framework
Research output: Research - peer-review › Journal article – Annual report year: 2019

Challenges of including human exposure to chemicals in food packaging as a new exposure pathway in life cycle impact assessment
Research output: Research - peer-review › Journal article – Annual report year: 2019

Effect factors of terrestrial acidification in Brazil for use in Life Cycle Impact Assessment
Research output: Research - peer-review › Journal article – Annual report year: 2019

Evaluating the monetary values of greenhouse gases emissions in life cycle impact assessment
Research output: Research - peer-review › Journal article – Annual report year: 2019

Life cycle assessments of aquaculture systems: a critical review of reported findings with recommendations for policy and system development
Research output: Research - peer-review › Journal article – Annual report year: 2019

Overview and recommendations for regionalized life cycle impact assessment
Research output: Research - peer-review › Journal article – Annual report year: 2019

Relationships between plant species richness and soil pH at the level of biome and ecoregion in Brazil
Research output: Research - peer-review › Journal article – Annual report year: 2019

About This Book
Research output: Education - peer-review › Book chapter – Annual report year: 2017

A comparison of land use change accounting methods: seeking common grounds for key modeling choices in biofuel assessments
Research output: Research - peer-review › Journal article – Annual report year: 2018
Advancing Life Cycle Engineering to meet United Nation's Sustainable Development Goals
Research output: Research - peer-review › Editorial – Annual report year: 2018

ASTA - A method for multi-criteria evaluation of water supply technologies to Assess the most SusTainable Alternative for Copenhagen
Research output: Research - peer-review › Journal article – Annual report year: 2018

Cradle to Cradle and LCA
Research output: Education - peer-review › Book chapter – Annual report year: 2017

Development of a life-cycle impact assessment methodology linked to the Planetary Boundaries framework
Research output: Research - peer-review › Journal article – Annual report year: 2018

Environmental Impact of Urban Consumption Patterns: Drivers and Focus Points
Research output: Research - peer-review › Journal article – Annual report year: 2018

Environmental screening of potential biomass for green biorefinery conversion
Research output: Research - peer-review › Journal article – Annual report year: 2018

Environmental sustainable decision making – The need and obstacles for integration of LCA into decision analysis
Research output: Research - peer-review › Journal article – Annual report year: 2018

Global guidance on environmental life cycle impact assessment indicators: impacts of climate change, fine particulate matter formation, water consumption and land use
Research output: Research - peer-review › Journal article – Annual report year: 2018

How to bring absolute sustainability into decision-making: An industry case study using a Planetary Boundary-based methodology
Research output: Research - peer-review › Journal article – Annual report year: 2018

Influence of substance coverage on impacts from the electricity sector
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

Integrating groundwater stress in life-cycle assessments – An evaluation of water abstraction
Research output: Research - peer-review › Journal article – Annual report year: 2018

Introduction to LCA Methodology
Research output: Education - peer-review › Book chapter – Annual report year: 2017

Is green infrastructure more sustainable? Environmental life cycle assessment of four different stormwater management systems
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

LCA Cookbook
Research output: Education - peer-reviewed › Book chapter – Annual report year: 2017

LCA History
Research output: Education - peer-review › Book chapter – Annual report year: 2017

LCA of Energy Systems
Research output: Education - peer-review › Book chapter – Annual report year: 2017
LCA of Solid Waste Management Systems
Research output: Education - peer-review › Book chapter – Annual report year: 2017

LCA of Wastewater Treatment
Research output: Education - peer-review › Book chapter – Annual report year: 2018

Life cycle assessment in corporate sustainability reporting: Global, regional, sectoral, and company-level trends
Research output: Research - peer-review › Journal article – Annual report year: 2018

Life cycle assessment of adipic acid production from lignin
Research output: Research - peer-review › Journal article – Annual report year: 2018

Life Cycle Assessment - Theory and Practice
Research output: Education - peer-review › Book – Annual report year: 2017

Life cycle engineering of lightweight structures
Research output: Research - peer-review › Journal article – Annual report year: 2018

Life Cycle Impact Assessment
Research output: Education - peer-review › Book chapter – Annual report year: 2017

Life Cycle Interpretation
Research output: Education - peer-review › Book chapter – Annual report year: 2017

Life Cycle Inventory Analysis
Research output: Education - peer-review › Book chapter – Annual report year: 2017

Life cycle targets applied in highly automated car body manufacturing – Method and algorithm
Research output: Research - peer-review › Journal article – Annual report year: 2018

Mapping of global plastic value chain and plastic losses to the environment: with a particular focus on marine environment
Research output: Research › Report – Annual report year: 2018

Metal toxicity characterization factors for marine ecosystems: considering the importance of the estuary for freshwater emissions
Research output: Research - peer-review › Journal article – Annual report year: 2018

Methodological choices of LCA applied to aquaculture systems: A critical review & recommendations.
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

Prospective Assessment of Steel Manufacturing Relative to Planetary Boundaries: Calling for Life Cycle Solution
Research output: Research - peer-review › Conference article – Annual report year: 2018

Pursuing necessary reductions in embedded GHG emissions of developed nations: will efficiency improvements and changes in consumption get us there?
Research output: Research - peer-review › Journal article – Annual report year: 2018

Quantifying sustainability – from better to good enough
Research output: Research › Conference abstract for conference – Annual report year: 2018

Review of environmental sustainability assessments of aquaculture systems: main findings and outlook.
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018
Role of manufacturing towards achieving circular economy: The steel case
Research output: Research - peer-review › Journal article – Annual report year: 2018

Scope Definition
Research output: Education - peer-review › Book chapter – Annual report year: 2017

Spatially explicit fate factors of waterborne nitrogen emissions at the global scale
Research output: Research - peer-review › Journal article – Annual report year: 2018

Supply chain collaboration in industrial symbiosis networks
Research output: Research - peer-review › Journal article – Annual report year: 2018

Sustainability and LCA in Engineering Education - A Course Curriculum
Research output: Research - peer-review › Conference article – Annual report year: 2018

Sustainable Development Guidance. Guidance for assessing the environmental, social and economic impacts of policies and actions
Research output: Research - peer-review › Report – Annual report year: 2018

Target-Driven Life Cycle Engineering: Staying within the Planetary Boundaries
Research output: Research - peer-review › Conference article – Annual report year: 2018

Techno-environmental assessment of the green biorefinery concept: Combining process simulation and life cycle assessment at an early design stage
Research output: Research - peer-review › Journal article – Annual report year: 2018

The 25th CIRP Conference on Life Cycle Engineering
Research output: Research - peer-review › Book – Annual report year: 2018

The cost of CO2 in Life Cycle Assessment
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

Toward Harmonizing Ecotoxicity Characterization in Life Cycle Impact Assessment
Research output: Research - peer-review › Journal article – Annual report year: 2018

An Integrated Framework for Life Cycle Engineering
Research output: Research - peer-review › Journal article – Annual report year: 2017

Applying LCA in decision making- the need and the future perspective
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Can carbon footprint serve as proxy of the environmental burden from urban consumption patterns?
Research output: Research - peer-review › Journal article – Annual report year: 2017

Characterization of waterborne nitrogen emissions for marine eutrophication modelling in life cycle impact assessment at the damage level and global scale
Research output: Research - peer-review › Journal article – Annual report year: 2017

Closing the Loop for Packaging: Finding a Framework to Operationalize Circular Economy Strategies
Research output: Research - peer-review › Journal article – Annual report year: 2017
Combining eco-efficiency and eco-effectiveness for continuous loop beverage packaging systems: learnings from the Carlsberg Circular Community
Research output: Research - peer-review › Journal article – Annual report year: 2017

Contributions of Local Farming to Urban Sustainability in the Northeast United States
Research output: Research - peer-review › Journal article – Annual report year: 2017

Critical review of life cycle assessments conducted on aquaculture systems: identification of environmental improvements
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Environmental impacts of barley cultivation under current and future climatic conditions
Research output: Research - peer-review › Journal article – Annual report year: 2017

Environmental impacts of electricity self-consumption from organic photovoltaic battery systems at industrial facilities in Denmark
Research output: Research - peer-review › Journal article – Annual report year: 2017

Environmental impacts of electricity self-consumption from organic photovoltaic battery systems at industrial facilities in Denmark
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

Environmental impacts of electricity self-consumption in residential buildings: Case study of organic photovoltaic battery systems in Denmark
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

Environmental impacts of stormwater management and pollutant discharges
Research output: Research - peer-review › Poster – Annual report year: 2017

Environmental impacts of stormwater management and pollutant discharges
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Environmental performance of gasified willow from different lands including land-use changes
Research output: Research - peer-review › Journal article – Annual report year: 2016

Exploring REACH as a potential data source for characterizing ecotoxicity in life cycle assessment
Research output: Research - peer-review › Journal article – Annual report year: 2016

Functional unit and product functionality—addressing increase in consumption and demand for functionality in sustainability assessment with LCA
Research output: Research - peer-review › Journal article – Annual report year: 2017

How does the long-term aging in the soil change terrestrial ecotoxic impacts of anthropogenic metal emissions?
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

If bio-based plastics is the answer, what was the question?
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Improved comparative toxicity potentials of 23 metallic elements in soils: addressing solid- and liquid-phase speciation in environmental fate, exposure, and effects
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017
A proposal to measure absolute environmental sustainability in lifecycle assessment
Research output: Research - peer-review › Journal article – Annual report year: 2016

Area of Concern: A new paradigm in life cycle assessment for the development of footprint metrics
Research output: Research - peer-review › Journal article – Annual report year: 2015

Assessing environmental performance of hydrothermal carbonization of wet biomass at industry-relevant scales
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Assessment of Metal Toxicity in Marine Ecosystems: Comparative Toxicity Potentials for Nine Cationic Metals in Coastal Seawater
Research output: Research - peer-review › Journal article – Annual report year: 2015

Challenges in implementing a Planetary Boundaries based Life-Cycle Impact Assessment methodology
Research output: Research - peer-review › Journal article – Annual report year: 2016

Circular and safe?
Research output: Research - peer-review › Poster – Annual report year: 2016

Circular and Safe?
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Contribution of waterborne nitrogen emissions to hypoxia-driven marine eutrophication: modelling of damage to ecosystems in life cycle impact assessment (LCIA)

Effect factors for marine eutrophication in LCIA based on species sensitivity to hypoxia
Research output: Research - peer-review › Journal article – Annual report year: 2016

Effect factors for terrestrial acidification in Brazil
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Environmental impacts of flood control measures in climate change adaptation strategies
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Environmental performance of hydrothermal carbonization of four wet biomass waste streams at industry-relevant scales
Research output: Research - peer-review › Journal article – Annual report year: 2016

Global guidance on environmental life cycle impact assessment indicators: Progress and case study
Research output: Research - peer-review › Journal article – Annual report year: 2016

How much biochar does gasification energy need to be carbon neutral?
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

How to consistently make your product, technology or system more environmentally-sustainable?
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Integrating LCA and Risk Assessment for Decision Support
Research output: Research - peer-review › Poster – Annual report year: 2016
Land Use in LCIA: an absolute scale proposal for Biotic Production Potential
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Life cycle assessment for policy-making: Case of the human health impacts from national NMVOC emissions in the EU-27 between 2000 and 2010
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Life cycle assessment of stormwater management in the context of climate change adaptation
Research output: Research - peer-review › Journal article – Annual report year: 2016

Life cycle assessment of stormwater management systems for Nørrebro, Copenhagen
Research output: Research - peer-review › Poster – Annual report year: 2016

Limitations and opportunities of combining Cradle to Grave and Cradle-to-Cradle approaches to support the circular economy
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016

Mainstreaming life cycle thinking through a consistent approach to footprints
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Natural fibre selection for composite eco-design
Research output: Research - peer-review › Journal article – Annual report year: 2016

On the need for integrating LCA into decision making
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Sensitivity analysis of the use of Life Cycle Impact Assessment methods: a case study on building materials
Research output: Research - peer-review › Journal article – Annual report year: 2016

Supply Chain Management in Industrial Symbiosis Networks

Testing the environmental performance of urban agriculture as a food supply in northern climates
Research output: Research - peer-review › Journal article – Annual report year: 2016

The development of an operational LCIA-methodology with impact categories based on the control variables in the Planetary Boundaries framework
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

The role of manufacturing in affecting the social dimension of sustainability
Research output: Research - peer-review › Journal article – Annual report year: 2016

Urban versus conventional agriculture, taxonomy of resource profiles: a review
Research output: Research - peer-review › Journal article – Annual report year: 2016

Advances in assessing terrestrial toxicity of metal emissions for improved sustainability characterization of technologies
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

A marine eutrophication impacts assessment method in LCIA coupling coastal ecosystems exposure to nitrogen and species sensitivity to hypoxia
Research output: Research › Conference abstract for conference – Annual report year: 2015
Assessing comparative terrestrial ecotoxicity of Cd, Co, Cu, Ni, Pb, and Zn: The influence of aging and emission source
Research output: Research - peer-review › Journal article – Annual report year: 2015

Better, but good enough? Indicators for absolute environmental sustainability in a life cycle perspective
Research output: Research › Ph.D. thesis – Annual report year: 2015

Better – But is it Good Enough? On the Need to Consider Both Eco-efficiency and Eco-effectiveness to Gauge Industrial Sustainability
Research output: Research - peer-review › Journal article – Annual report year: 2015

Coupling ecosystems exposure to nitrogen and species sensitivity to hypoxia: modelling marine eutrophication in LCIA
Research output: Research › Conference abstract for conference – Annual report year: 2015

Eco-efficient production of spring barley in a changed climate: A Life Cycle Assessment including primary data from future climate scenarios
Research output: Research - peer-review › Journal article – Annual report year: 2015

Experimental determinations of soil copper toxicity to lettuce (Lactuca sativa) growth in highly different copper spiked and aged soils
Research output: Research - peer-review › Journal article – Annual report year: 2015

Exploring the planetary boundary for chemical pollution
Research output: Research - peer-review › Journal article – Annual report year: 2015

Exposure factors for marine eutrophication impacts assessment based on a mechanistic biological model
Research output: Research - peer-review › Journal article – Annual report year: 2015

Fate factors for airborne contributions to acidification, eutrophication and photochemical ozone formation in Brazil
Research output: Research › Poster – Annual report year: 2015

From LCC to LCA Using a Hybrid Input Output Model – A Maritime Case Study
Research output: Research - peer-review › Conference article – Annual report year: 2015

From nitrogen enrichment to oxygen depletion: a mechanistic model of coastal marine ecosystems response
Research output: Research › Conference abstract for conference – Annual report year: 2015

From species sensitivity to hypoxia to effect factors modelling in life cycle impact assessment (LCIA)
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

How do we assess "sustainability" with proper indicators?
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

How to implement the circular economy in the beer packaging sector through eco-efficiency- and eco-effectiveness- based solutions
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

How to manage uncertainty in future Life Cycle Assessment (LCA) scenarios addressing the effect of climate change in crop production
Research output: Research - peer-review › Journal article – Annual report year: 2015

Introducing carrying capacity-based normalisation in LCA: framework and development of references at midpoint level
Research output: Research - peer-review › Journal article – Annual report year: 2015
Introducing Life Cycle Impact Assessment  
Research output: Research - peer-review | Book chapter – Annual report year: 2015

Introducing life cycle thinking in product development – A case from Siemens Wind Power  
Research output: Research - peer-review | Journal article – Annual report year: 2015

LCA as a decision support tool in policy making: the case study of Danish spring barley production in a changed climate  
Research output: Research - peer-review | Article in proceedings – Annual report year: 2015

Life Cycle Impact Assessment  
Research output: Research | Book – Annual report year: 2015

Necessidade de uma metodologia de Avaliação de Impacto do Ciclo de Vida espacialmente diferenciada para o Brasil  
Research output: Research - peer-review | Paper – Annual report year: 2015

Normalisation  
Research output: Research - peer-review | Book chapter – Annual report year: 2015

Opportunities and challenges for including Planetary Boundaries in Life- Cycle Assessment  
Research output: Research - peer-review | Conference abstract in proceedings – Annual report year: 2015

Power generation from chemically cleaned coals: do environmental benefits of firing cleaner coal outweigh environmental burden of cleaning?  
Research output: Research - peer-review | Journal article – Annual report year: 2015

Preparing the ground for an operational handling of long-term emissions in LCA  
Research output: Research - peer-review | Journal article – Annual report year: 2016

Quantifying spatially derived carrying capacity occupation: Framework for characterisation modelling and application to terrestrial acidification  
Research output: Research - peer-review | Conference abstract for conference – Annual report year: 2015

Quantifying Urban Foodprints and Mitigation Opportunities  
Research output: Research - peer-review | Poster – Annual report year: 2015

Strengthening the Link between Life Cycle Assessment and Indicators for Absolute Sustainability To Support Development within Planetary Boundaries  
Research output: Research - peer-review | Journal article – Annual report year: 2015

Sustainability in highly automated production systems: Methodology and algorithm for assessing production lines in the planning phase  
Research output: Research - peer-review | Poster – Annual report year: 2016

Testing the assertion that urban agriculture is sustainable  
Research output: Research - peer-review | Conference abstract in proceedings – Annual report year: 2015

The need for an established allocation method when assessing absolute sustainability on a product level  
Research output: Research - peer-review | Conference abstract in proceedings – Annual report year: 2016

The potential contribution to climate change mitigation from temporary carbon storage in biomaterials  
Research output: Research - peer-review | Journal article – Annual report year: 2015
The USEtox story: A survey of model developer visions and user requirements
Research output: Research - peer-review › Journal article – Annual report year: 2014

Viewpoint: Making Sense of the Minefield of Footprint Indicators
Research output: Research - peer-review › Journal article – Annual report year: 2015

20 years of LCA applied to waste management systems: what can we learn?
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Assessment of urgent impacts of greenhouse gas emissions—the climate tipping potential (CTP)
Research output: Research - peer-review › Journal article – Annual report year: 2014

Beyond Safe Operating Space: Finding Chemical Footprinting Feasible
Research output: Research - peer-review › Journal article – Annual report year: 2014

Can carbon footprint be an acceptable indicator of environmental sustainability?
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Characterization modelling of aquatic ecotoxicity from metal emission to be applied in Life Cycle Impact Assessment
Research output: Research › Ph.D. thesis – Annual report year: 2015

Chemical footprint assessment: presentation of method and application to a case study involving different spatial scales
Research output: Research › Conference abstract for conference – Annual report year: 2015

Chemical Footprint Method for Improved Communication of Freshwater Ecotoxicity Impacts in the Context of Ecological Limits
Research output: Research - peer-review › Journal article – Annual report year: 2014

Chemical Footprints: Thin Boundaries Support Environmental Quality Management
Research output: Research - peer-review › Comment/debate – Annual report year: 2014

Confronting Uncertainty in Life Cycle Assessment Used for Decision Support: Developing and Proposing a Taxonomy for LCA Studies
Research output: Research - peer-review › Journal article – Annual report year: 2014

Coupling habitat exposure to nitrogen and species sensitivity to hypoxia – LCIA methodology applied to marine eutrophication
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Development of characterization factors for metals in coastal seawater
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Development of Comparative Toxicity Potentials of 14 cationic metals in freshwater
Research output: Research - peer-review › Journal article – Annual report year: 2014

Elucidating differences in metal absorption efficiencies between terrestrial soft-bodied and aquatic species
Research output: Research - peer-review › Journal article – Annual report year: 2014

Enabling optimization in LCA: from "ad hoc" to "structural" LCA approach—based on a biodiesel well-to-wheel case study
Research output: Research - peer-review › Journal article – Annual report year: 2013
Environmental assessment of biomass based materials: With special focus on the climate effect of temporary carbon storage
Research output: Research › Ph.D. thesis – Annual report year: 2014

Estimation of Effect Factors for application to marine eutrophication in LCIA
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2014

Estimation of Effect Factors for application to marine eutrophication in LCIA
Research output: Research › Sound/Visual production (digital) – Annual report year: 2014

Global guidance on environmental life cycle impact assessment indicators: findings of the scoping phase
Research output: Research › peer-review › Journal article – Annual report year: 2014

How does the choice of ILCD recommended practice for characterization modelling change the assessment of environmental impacts in LCA of products?
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2014

How does the choice of ILCD’s recommended methods change the assessment of environmental impacts in LCA of products?
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2014

How large is the safe operating space? Comparison of five proposals for the N and P cycle planetary boundaries and implications for governance
Research output: Research › Paper – Annual report year: 2015

How to define future LCA scenarios addressing the effect of climate change in crop production: Extended abstract
Research output: Research › peer-review › Conference abstract for conference – Annual report year: 2014

IMPACT 2002+, ReCiPe 2008 and ILCD’s recommended practice for characterization modelling in life cycle impact assessment: a case study-based comparison
Research output: Research › peer-review › Journal article – Annual report year: 2014

Impacts of NMVOC emissions on human health in European countries for 2000-2010: Use of sector-specific substance profiles
Research output: Research › peer-review › Journal article – Annual report year: 2014

Improvement of methodological and data background for life cycle assessment of nano-metaloxides
Research output: Research › Ph.D. thesis – Annual report year: 2015

Integrating planetary boundaries into the life cycle assessment framework for assessing absolute environmental sustainability of products and systems
Research output: Research › Conference abstract for conference – Annual report year: 2015

Large Marine Ecosystems and coastal water archetypes implemented in LCIA methods for marine eutrophication and metals ecotoxicity
Research output: Research › peer-review › Poster – Annual report year: 2014

LCA in support of more qualified air pollution abatement policies: Case of NMVOC emissions in European countries for 2000-2010
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2014
Life cycle assessment applied to nanomaterials in solid waste management: Focus on human health impact assessment
Research output: Research › Ph.D. thesis – Annual report year: 2014

Research output: Research - peer-review › Literature review – Annual report year: 2014

Life Cycle Engineering and Sustainable Manufacturing
Research output: Research - peer-review › Journal article – Annual report year: 2014

Long term impacts of international outsourcing of manufacturing on sustainability
Research output: Research - peer-review › Journal article – Annual report year: 2014

Managing human health impacts from chemical emissions: Learnings from analysis of national NMVOC emissions and impacts in the EU-27 in 2000-2010
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Proposal for a new normalization reference in LCA based on "safe operating space": presentation of framework and global factors at midpoint level
Research output: Research › Conference abstract for conference – Annual report year: 2015

Put numbers on the sustainability
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Review of LCA studies of solid waste management systems – Part II: Methodological guidance for a better practice
Research output: Research - peer-review › Journal article – Annual report year: 2014

Review of LCA studies of solid waste management systems – Part I: Lessons learned and perspectives
Research output: Research - peer-review › Journal article – Annual report year: 2014

Spatially differentiated comparative toxicity potentials of metals in global coastal seawater
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Spatially-explicit LCIA model for marine eutrophication as a tool for sustainability assessment
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Towards a more robust fate modeling of metals’ long-term emissions in an LCIA context
Research output: Research - peer-review › Poster – Annual report year: 2014

Urban agricultural typologies and the need to quantify their potential to reduce a city’s environmental ‘foodprint’
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Will organic photovoltaic technology render benefits in a 30-year horizon?
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Absolute versus Relative Environmental Sustainability: What can the Cradle-to-Cradle and Eco-efficiency Concepts Learn from Each Other?
Research output: Research - peer-review › Journal article – Annual report year: 2013

A critical review of life cycle assessment applied to solid waste management systems
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013
Addressing Geographic Variability in the Comparative Toxicity Potential of Copper and Nickel in Soils
Research output: Research - peer-review › Journal article – Annual report year: 2013

Approaching the planetary boundary for chemical pollution through a chemical footprint indicator – exploring feasibility via two case studies
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Assessing Environmental Sustainability of Remediation Technologies in a Life Cycle Perspective is Not So Easy
Research output: Research - peer-review › Journal article – Annual report year: 2013

Challenges in LCA-based decision making involving heavy metals long-term emissions from landfills
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Development of characterization factors for metals in 7 EU water archetypes
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Drivers and barriers for implementation of environmental strategies in manufacturing companies
Research output: Research - peer-review › Journal article – Annual report year: 2013

Endpoint characterisation modelling for marine eutrophication in LCIA
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Endpoint characterisation modelling for marine eutrophication in LCIA
Research output: Research › Sound/Visual production (digital) – Annual report year: 2013

Environmental challenges of anthropogenic metals flows and cycles
Research output: Research - peer-review › Report – Annual report year: 2012

Fate process modelling in LCI: improving inventory quality or double counting?
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Final evaluation of the newly developed characterisation and normalisation factors in an LCA case study - Paper production and printing
Research output: Research › Report – Annual report year: 2013

Identifying best existing practice for characterization modeling in life cycle impact assessment
Research output: Research - peer-review › Journal article – Annual report year: 2013

Inclusion of Climatic Tipping Potential in LCA
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Keeping USEtox up-to-date: What is coming and how you can contribute
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Key issues and options in accounting for carbon sequestration and temporary storage in life cycle assessment and carbon footprinting
Research output: Research - peer-review › Journal article – Annual report year: 2012

LCA as a support tool for forecasting scenarios: the case study of Danish spring barley production in a changing climate
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014
Life-cycle and freshwater withdrawal impact assessment of water supply technologies
Research output: Research - peer-review › Journal article – Annual report year: 2013

Mapping and characterization of LCA networks
Research output: Research - peer-review › Journal article – Annual report year: 2013

Modelling of pesticide emissions for Life Cycle Inventory analysis: Model development, applications and implications
Research output: Research › Ph.D. thesis – Annual report year: 2014

Need for relevant timescales when crediting temporary carbon storage
Research output: Research - peer-review › Journal article – Annual report year: 2012

Potential for optimized production and use of rapeseed biodiesel. Based on a comprehensive real-time LCA case study in Denmark with multiple pathways
Research output: Research - peer-review › Journal article – Annual report year: 2012

Quantification of urban metabolism through coupling with the life cycle assessment framework: concept development and case study. Letter
Research output: Research - peer-review › Journal article – Annual report year: 2013

Recommended assessment framework, method and characterisation and normalisation factors for ecosystem impacts of eutrophying emissions: phase 3 (report, model and factors)
Research output: Research - peer-review › Report – Annual report year: 2013

Spatially-explicit LCIA endpoint model for marine eutrophication and application to future climatic-driven pressures
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Supply chain coordination in industrial symbiosis
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Sustainability of abrasive processes
Research output: Research - peer-review › Journal article – Annual report year: 2013

Can carbon footprint serve as a comprehensive tool for assessing and managing environmental sustainability?
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Challenges in life cycle assessments of waste application to agricultural land
Research output: Research › Sound/Visual production (digital) – Annual report year: 2013

Defining and mapping LCA networks: Initial results
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Environmental impacts and improvement prospects for environmental hotspots in the production of palm oil derived biodiesel in Malaysia
Research output: Research › Ph.D. thesis – Annual report year: 2012

Evaluation of spatial variability of metal bioavailability in soils using geostatistics
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012
Exploring the feasibility of chemical footprint assessment - the case of eco-toxicological impacts on freshwater from pesticide use in Denmark
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Helhedsorienteret miljøvurdering af teknologier i et livscyklusperspektiv
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Improving life cycle assessment methodology for the application of decision support: Focusing on the statistical value chain
Research output: Research › Ph.D. thesis – Annual report year: 2012

Including urgency in global warming assessment in LCA
Research output: Research › Poster – Annual report year: 2012

Learning by doing - bringing real-life case studies into the classroom
Research output: Research › Conference abstract in proceedings – Annual report year: 2012

Life cycle assessment of central softening of very hard drinking water
Research output: Research - peer-review › Journal article – Annual report year: 2012

Limitations of Carbon Footprint as Indicator of Environmental Sustainability
Research output: Research - peer-review › Journal article – Annual report year: 2012

Mapping and characterization of LCA networks
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Methodology for systematic analysis and improvement of manufacturing unit process life-cycle inventory (UPLCI)—CO2PE! initiative (cooperative effort on process emissions in manufacturing). Part 1: Methodology description
Research output: Research - peer-review › Journal article – Annual report year: 2012

Methodology for systematic analysis and improvement of manufacturing unit process life cycle inventory (UPLCI) CO2PE! initiative (cooperative effort on process emissions in manufacturing). Part 2: case studies
Research output: Research - peer-review › Journal article – Annual report year: 2012

Modelling health effects from inhalation of nano-objects
Research output: Research › Poster – Annual report year: 2012

PestLCI 2.0: a second generation model for estimating emissions of pesticides from arable land in LCA
Research output: Research - peer-review › Journal article – Annual report year: 2012

Research output: Research - peer-review › Journal article – Annual report year: 2012

Sustainability assessment of water supply in Copenhagen: Alternatives fulfilling the EU-Water Framework Directive
Research output: Research - peer-review › Poster – Annual report year: 2012

Sustainability assessment of water supply in Copenhagen - what is the impact of freshwater withdrawal?
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Sustainability evaluation of water supply technologies: By using life-cycle and freshwater withdrawal impact assessment & multi-criteria decision analysis
Research output: Research › Ph.D. thesis – Annual report year: 2012
Towards energy and resource efficient manufacturing: A processes and systems approach
Research output: Research - peer-review › Journal article – Annual report year: 2012

Valg af afværge med inddragelse af livscyklusvurdering (LCA)
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Validation of PestLCI 2.0, an updated and expanded model to estimate pesticide emissions for use in LCI
Research output: Research › Poster – Annual report year: 2012

A bright future for addressing chemical emissions in life cycle assessment
Research output: Research - peer-review › Journal article – Annual report year: 2011

Accounting for the potential value of temporary carbon storage: The issue of choosing relevant time horizons
Research output: Research › Poster – Annual report year: 2011

Addressing Speciation in the Effect Factor for Characterisation of Freshwater Ecotoxicity: The case of copper
Research output: Research - peer-review › Journal article – Annual report year: 2011

A Methodology for Inclusion of Terrestrial Ecotoxic Impacts of Metals in Life Cycle Impact Assessment
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

An improved model for estimating pesticide emissions for agricultural LCA
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2011

Are Free Ion Activity Models Sufficient Alternatives to Biotic Ligand Models in Evaluating Metal Toxic Impacts in Terrestrial Environments?
Research output: Research › Poster – Annual report year: 2011

Assessing the impacts of industrial water use in Life Cycle Assessment
Research output: Research - peer-review › Journal article – Annual report year: 2011

Assessing the most Sustainable Alternative for Production of drinking water - ASTA a decision support system
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2011

Assessing the most sustainable alternative for production of drinking water – ASTA a decision support system Alternatives fulfilling the EU-Water Framework Directive
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2011

Atmospheric fate of non volatile and ionizable compounds
Research output: Research - peer-review › Journal article – Annual report year: 2011

Can freshwater toxicity models (FIAM and BLM) be applicable to marine ecosystem?
Research output: Research › Poster – Annual report year: 2011

Climate change damage functions in LCA: – (2) data availability and selection of indicators
Research output: Research - peer-review › Poster – Annual report year: 2011

Climate change damage functions in LCA – (1) from global warming potential to natural environment damages
Research output: Research › Conference abstract for conference – Annual report year: 2011
Comparison of metal toxic impacts between aquatic and terrestrial organisms: is the free ion concentration a sufficient descriptor?
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

Cradle to Cradle and LCA – is there a conflict?
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Environmental impacts and timeframes of remediation scenarios for chloroethene-contaminated sites
Research output: Research › Conference abstract for conference – Annual report year: 2011

Importance of linkage between LCA methodology developments and their applications in practice
Research output: Research › Poster – Annual report year: 2011

Improved model for estimating pesticide emissions for agricultural LCA: PestLCI2.0: Climate, soil and chemical specificity in LCI modelling
Research output: Research › Poster – Annual report year: 2011

LCA as an environmental technology development performance indicator of engineered nano-materials and their application in polymers
Research output: Research › Conference abstract for conference – Annual report year: 2011

LCA as an environmental technology development performance indicator of engineered nano-materials and their application in polymers
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

LCA of contaminated site remediation – integration of site-specific impact assessment of local toxic impacts
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

LCA of contaminated site remediation - integration of site-specific impact assessment of local toxic impacts
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

LC-IMPACT Deliverable 2.1. Terrestrial ecotoxicity
Research output: Research - peer-review › Report – Annual report year: 2011

Life Cycle Assessment Combined with Remedial Performance Modeling for Assessment of the Environmental Impacts of Remediation Technologies for TCE-Contaminated Sites
Research output: Research › Conference abstract for conference – Annual report year: 2011

Metal impact in the marine system
Research output: Research › Poster – Annual report year: 2011

Normalization in EDIP97 and EDIP2003: updated European inventory for 2004 and guidance towards a consistent use in practice
Research output: Research - peer-review › Journal article – Annual report year: 2011

Normalization references for Europe and North America for application with USEtox™ characterization factors
Research output: Research - peer-review › Journal article – Annual report year: 2011

Normalization references for USEtoxTM-based toxic impact categories: North American and European economic systems
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

Site specific pesticide emission patterns: Influence of site specific emissions patterns on pesticide impact potential
Research output: Research › Sound/Visual production (digital) – Annual report year: 2011
USEtox fate and ecotoxicity factors for comparative assessment of toxic emissions in Life Cycle Analysis: Sensitivity to key chemical properties
Research output: Research - peer-review › Journal article – Annual report year: 2011

USEtox human exposure and toxicity factors for comparative assessment of toxic emissions in life cycle analysis: sensitivity to key chemical properties
Research output: Research - peer-review › Journal article – Annual report year: 2011

Ability of carbon footprint to reflect the environmental burden of a product or service – an empirical study
Research output: Research › Poster – Annual report year: 2010

Assessing the validity of impact pathways for child labour and well-being in Social Life Cycle Assessment
Research output: Research - peer-review › Journal article – Annual report year: 2010

Carbon footprint as environmental performance indicator for the manufacturing industry
Research output: Research - peer-review › Journal article – Annual report year: 2010

Characterisation of social impacts in LCA. Part 1: Development of indicators for labour rights
Research output: Research - peer-review › Journal article – Annual report year: 2010

Characterisation of social impacts in LCA. Part 2: implementation in six company case studies
Research output: Research - peer-review › Journal article – Annual report year: 2010

Defining the baseline in social life cycle assessment
Research output: Research - peer-review › Journal article – Annual report year: 2010

EASEWASTE-life cycle modeling capabilities for waste management technologies
Research output: Research - peer-review › Journal article – Annual report year: 2010

Environmental Impacts of Remediation of a Trichloroethene-Contaminated Site: Life Cycle Assessment of Remediation Alternatives
Research output: Research - peer-review › Journal article – Annual report year: 2010

From emission to ecotoxicity: comparative assessment of fate and ecotoxicity in LCA using USEtox
Research output: Research › Sound/Visual production (digital) – Annual report year: 2010

Research output: Research - peer-review › Journal article – Annual report year: 2010

LCA as decision support for evaluation of environmental impacts of site remediation scenarios
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2010

Life cycle assessment (LCA) as a decision-support tool for the evaluation of environmental impacts of site remediation on the global, regional and local scale
Research output: Research › Article in proceedings – Annual report year: 2010

Life cycle assessment of soil and groundwater remediation technologies: literature review
Research output: Research - peer-review › Journal article – Annual report year: 2010

Livscyklusvurdering (LCA) som beslutningsstøtte ved valg af afværgemetoder
Research output: Research › Article in proceedings – Annual report year: 2010
Models for waste life cycle assessment: Review of technical assumptions
Research output: Research - peer-review › Journal article – Annual report year: 2010

Quantifying sustainability of genetically modified crops
Research output: Research › Poster – Annual report year: 2010

Simplified methodology for inclusion of climate parameters in chemical prioritization as applied in life cycle impact assessment and risk assessment – PBT(+C) prioritization
Research output: Research - peer-review › Poster – Annual report year: 2010

The clearwater consensus: the estimation of metal hazard in fresh water
Research output: Research - peer-review › Journal article – Annual report year: 2010

Bæredygtig biodiesel med enzym
Research output: Communication › Journal article – Annual report year: 2009

C balance, carbon dioxide emissions and global warming potentials in LCA-modeling of waste management systems
Research output: Research - peer-review › Journal article – Annual report year: 2009

Deliverable 4.2: Methodology for including specific biological effects and pathogen aspects into LCA
Research output: Research › Report – Annual report year: 2009

Development in methodologies for modelling of human and ecotoxic impacts in LCA
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

Effects of Globalisation on Carbon Footprints of Products.
Research output: Research - peer-review › Journal article – Annual report year: 2009

Environmental Sustainability Analysis of Biodiesel Production: A Comparative Analysis of Different Production Schemes
Research output: Research › Sound/Visual production (digital) – Annual report year: 2009

LCA as decision support for remediation of contaminated sites: Assessment of groundwater impacts
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

Lifecycle assessment of fuel ethanol from sugarcane in Brazil
Research output: Research - peer-review › Journal article – Annual report year: 2009

Life cycle assessment of offset printed matter with EDIP97: – how important are emissions of chemicals?
Research output: Research - peer-review › Journal article – Annual report year: 2009

Recent developments in Life Cycle Assessment
Research output: Research - peer-review › Journal article – Annual report year: 2009

Relevance and feasibility of Social Life Cycle Assessment from a Company Perspective
Research output: Research - peer-review › Journal article – Annual report year: 2009

The influence of speciation on the ecotoxic effects of heavy metals in aquatic systems
Research output: Research › Poster – Annual report year: 2009
Use of LCA as decision support for the selection of remedial strategies for remediation of contaminated soil and groundwater: Abstract TU 245
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2009

Use of LCA as decision support for the selection of remedial strategies for remediation of contaminated soil and groundwater
Research output: Research › Poster – Annual report year: 2009

Consequential life cycle inventory modelling of land use induced by crop consumption
Research output: Research › Ph.D. thesis – Annual report year: 2008

Influence of wastewater characteristics on handling food-processing industry wastewaters: Methane potential and sources of toxicity
Research output: Research › Ph.D. thesis – Annual report year: 2008

Assessing social impacts in a life cycle perspective: Lessons learned
Research output: Research - peer-review › Journal article – Annual report year: 2008

Biogenic carbon accounting in LCA-modelling: Comparison of different criteria
Research output: Research › Article in proceedings – Annual report year: 2008

Building a model based on scientific consensus for Life Cycle Impact Assessment of chemicals: The Search for Harmony and Parsimony
Research output: Research - peer-review › Journal article – Annual report year: 2008

C balance, carbon dioxide emissions and global warming potentials in LCA-modelling of waste management systems
Research output: Research › Article in proceedings – Annual report year: 2008

Development of a recommended Life Cycle Impact Assessment methodology - a European step towards a worldwide method
Research output: Research › Conference abstract in proceedings – Annual report year: 2008

Development of recommended characterisation factors for primary and secondary particulate matter
Research output: Research › Conference abstract in proceedings – Annual report year: 2008

Gone… but not away: Addressing the problem of long-term impacts from landfills in LCA
Research output: Research - peer-review › Journal article – Annual report year: 2008

Identification of best practice: Development of basis for a recommended LCIA methodology for the European Commission
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2008

Identification of best practice: Development of basis for a recommended LCIA methodology for the European Commission
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2008

International consensus model for comparative assessment of chemical emissions in LCA
Research output: Research › Conference abstract in proceedings – Annual report year: 2008

Market Forces and the need to design for the environment
Research output: Research - peer-review › Journal article – Annual report year: 2008

Methodologies for Social Life Cycle Assessment: A review
Research output: Research - peer-review › Journal article – Annual report year: 2008
Milestone 4.1 • First draft on complemented LCA methodology
Research output: Research › Report – Annual report year: 2008

REVIEW OF EXISTING LCA STUDIES ON WASTE WATER TREATMENT TECHNOLOGIES
Research output: Research › Poster – Annual report year: 2008

Review of methodologies for Social LCA
Research output: Research - peer-review › Poster – Annual report year: 2008

Standardisation Efforts to Measure Greenhouse Gases and 'Carbon Footprinting' for Products
Research output: Research › Journal article – Annual report year: 2008

The role of heavy metal speciation in the determination of toxicity in aquatic systems
Research output: Research › Poster – Annual report year: 2008

USEtox - The UNEP-SETAC toxicity model: recommended characterisation factors for human toxicity and freshwater ecotoxicity in Life Cycle Impact Assessment
Research output: Research - peer-review › Journal article – Annual report year: 2008

Waste management modeling with PC-based model EASEWASTE
Research output: Research › Journal article – Annual report year: 2008

Assessing the social impacts of the biofuel lifecycle
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2007

Course Content for Life Cycle Engineering and EcoDesign
Research output: Research - peer-review › Journal article – Annual report year: 2007

Deliverable 4.1 Homogeneous LCA methodology agreed by NEPTUNE and INNOWATECH
Research output: Research › Report – Annual report year: 2007

Development of Brazilian normalization references from the combined study of emissions data and Brazilian energy matrix
Research output: Research › Poster – Annual report year: 2007

Erratum: Evaluation of Ecotoxicity Effect Indicators for Use in LCIA: Eq. 8 was lacking on p. 32, No. 1, Vol. 12, 2007
Research output: Research - peer-review › Journal article – Annual report year: 2006

Evaluation of Ecotoxicity Effect Indicators for Use in LCIA
Research output: Research - peer-review › Journal article – Annual report year: 2007

Experience with the use of LCA-modelling (EASEWASTE) in waste management
Research output: Research - peer-review › Journal article – Annual report year: 2007

Fate and Distribution Modelling of Metals in Life Cycle Impact Assessment
Research output: Research - peer-review › Journal article – Annual report year: 2007

GM-troph – a low data demand ecotoxicity effect indicator for use in LCIA
Research output: Research - peer-review › Journal article – Annual report year: 2007
Ecolabelling of printed matter. Part II: Life cycle assessment of model sheet fed offset printed matter
Research output: Research › Report – Annual report year: 2006

Environmental assessment of roads constructed with and without bottom ash from municipal solid waste incineration
Research output: Research - peer-review › Journal article – Annual report year: 2006

Environmental assessment of solid waste systems and technologies: EASEWASTE
Research output: Research - peer-review › Journal article – Annual report year: 2006

Evaluation of environmental impacts from municipal solid waste management in the municipality of Aarhus, Denmark (EASEWASTE)
Research output: Research - peer-review › Journal article – Annual report year: 2006

Experiences on the use of LCA-modeling (EASEWASTE) in waste management
Research output: Research › Article in proceedings – Annual report year: 2006

From Pressures to Impacts: - Life Cycle Impact Assessment
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

LCA Center Denmark: - status and perspectives for dissemination of IPP and Life cycle thinking in Industry
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Life cycle assessment of residue use in road construction (ROAD-RES)
Research output: Research › Article in proceedings – Annual report year: 2006

Life Cycle Engineering and Management
Research output: Research - peer-review › Book chapter – Annual report year: 2007

PestLCI - a model for estimating field emissions of pesticides in agricultural LCA
Research output: Research - peer-review › Journal article – Annual report year: 2006

Scoping must be done in accordance with the goal definition, also in Social LCA
Research output: Research › Journal article – Annual report year: 2006

Spatial differentiation in life cycle impact assessment - a decade of method development to increase the environmental realism of LCIA
Research output: Research - peer-review › Journal article – Annual report year: 2006

Spatial differentiation in the characterisation of photochemical ozone formation: – The EDIP2003 methodology
Research output: Research - peer-review › Journal article – Annual report year: 2006

Towards consensus in chemical characterization modeling for LCA: comparison and harmonization of models for human exposure and toxicity
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2006

Towards consensus in comparative chemical characterization modeling for LCIA: Efforts within the UNEP/SETAC Life Cycle Initiative
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2006

Waste prevention, waste policy and innovation
Research output: Research - peer-review › Report – Annual report year: 2006
Fate and exposure modelling in Life Cycle Assessment: Alternative approaches
Research output: Research › Ph.D. thesis – Annual report year: 2005

Assessing environmental impacts in a life cycle perspective
Research output: Research › peer-review › Journal article – Annual report year: 2005

EcoDesign and future environmental impacts
Research output: Research › peer-review › Journal article – Annual report year: 2005

From life cycle assessment to sustainable production: Status and perspectives
Research output: Research › peer-review › Journal article – Annual report year: 2005

LCA-tool for disposal of MSWI residues: Recycling in road construction and landfilling
Research output: Research › Article in proceedings – Annual report year: 2005

Modelling the influence of intermittent rain events on long-term fate and transport of organic air pollutants
Research output: Research › peer-review › Journal article – Annual report year: 2005

Progresses in Life Cycle Impact Assessment within the UNEP/SETAC Life Cycle Initiative
Research output: Research › peer-review › Journal article – Annual report year: 2005

Use of life cycle assessment (LCA) and environmental risk assessment (ERA) as tools for design and optimization of a wastewater treatment system for effluents from the food processing industry
Research output: Research › peer-review › Article in proceedings – Annual report year: 2005

Aquatic ecotoxicological indicators in life cycle assessment
Research output: Research › peer-review › Journal article – Annual report year: 2004

Background for spatial differentiation in life cycle impact assessment. The EDIP2003 methodology
Research output: Research › peer-review › Book – Annual report year: 2004

Bringing Science and Pragmatism together - a Tiered Approach for Modelling Toxicological Impacts in LCA
Research output: Research › peer-review › Journal article – Annual report year: 2004

Calculation of site specific characterisation factors for metal ecotoxicity using decoupled multi species fate and exposure modelling
Research output: Research › peer-review › Article in proceedings – Annual report year: 2004

Comparison between three different LCIA methods for aquatic ecotoxicity and a product Environmental Risk Assessment – Insights from a Detergent Case Study within OMNITOX
Research output: Research › peer-review › Journal article – Annual report year: 2004

Design for the environment - do we get the focus right?
Research output: Research › peer-review › Conference article – Annual report year: 2004

Ecotoxicity Effect Indicator for use in the OMNITOX Base Model
Research output: Research › Article in proceedings – Annual report year: 2004

Estimating pesticide emissions for life cycle assessment of agricultural products
Research output: Research › peer-review › Article in proceedings – Annual report year: 2004
Evaluation of selection methods for toxicological impacts in LCA. Recommendations for OMNIITOX.
Research output: Research - peer-review › Journal article – Annual report year: 2003

Implementation of the ecotoxicological, effects module
Research output: Research › Report – Annual report year: 2004

Implementation of the OMNIITOX Simplified Base Model.: Contribution to Work-package 7 of the OMNIITOX Project as part B of appropriate deliverable D41
Research output: Research › Report – Annual report year: 2004

Including chemical-related impact categories in LCA on printed matter does it matter?
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Including social impacts in LCIA
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Including social impacts in LCIA
Research output: Research › Conference abstract in proceedings – Annual report year: 2004

Integrated risk assessment and life-cycle assessment for industrial processes - book review
Research output: Research - peer-review › Journal article – Annual report year: 2004

Modelling pesticide emission patterns in agricultural life cycle inventories using a modular approach: Case study of apple production in New Zealand
Research output: Research › Poster – Annual report year: 2004

OMNIITOX - operational life-cycle impact assessment models and information tools for practitioners
Research output: Research - peer-review › Journal article – Annual report year: 2004

PestLCI - an inventory model estimating pesticide emissions from the field for LCA of agriculture products
Research output: Research › Conference abstract in proceedings – Annual report year: 2004

Simplified fate, exposure and effect modelling of chemical compounds in the case of lacking complete assessment data sets
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Spatial differentiation in characterisation modelling – what difference does it make?
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Spatial differentiation in life cycle impact assessment - the EDIP-2003 methodology. Guidelines from the Danish EPA
Research output: Research - peer-review › Book – Annual report year: 2004

The Progress of LCA Center Denmark After Almost Two Years of Service
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Comparison of three different LCIA methods: EDIP97, CML2001 and Eco-indicator 99. Does it matter which one you choose
Research output: Research - peer-review › Journal article – Annual report year: 2003

Education and training in LCA and life-cycle thinking experience and needs
Research output: Research - peer-review › Article in proceedings – Annual report year: 2003
Engineering for Sustainable Development - An obligatory Skill of the Future Engineer
Research output: Research › Conference abstract in proceedings – Annual report year: 2003

Evaluation of Selection Methods for use in Life Cycle Impact Assessment
Research output: Research › Article in proceedings – Annual report year: 2003

Implementation of Life Cycle Assessment (LCA) in the early stages of product development
Research output: Research › peer-review › Article in proceedings – Annual report year: 2003

Implementing Life Cycle Assessment in systems development.
Research output: Research › peer-review › Article in proceedings – Annual report year: 2003

Learning by doing – creating competences in engineering students on how and when to perform and use life cycle assessments
Research output: Research › peer-review › Article in proceedings – Annual report year: 2003

Life cycle assessment of the reuse of waste incineration residues in road construction
Research output: Research › Article in proceedings – Annual report year: 2003

Life Cycle Engineering – from methodology to enterprise culture
Research output: Research › Book chapter – Annual report year: 2003

PestLCI - A new model for estimation of inventory data for pesticide applications
Research output: Research › peer-review › Article in proceedings – Annual report year: 2003

PESTLCI – A PESTICIDE DISTRIBUTION MODEL FOR LCA
Research output: Research › Report – Annual report year: 2003

Sustainable Environment and Health for 21st Century.
Research output: Research › peer-review › Article in proceedings – Annual report year: 2003

Estimation of pesticide emissions for LCA of agricultural products
Research output: Research › Article in proceedings – Annual report year: 2002

Fate and exposure in the Life Cycle Impact Assessment of Toxicity
Research output: Research › Conference abstract in proceedings – Annual report year: 2002

Indicators for ecotoxicity in life cycle impact assessment.
Research output: Research › peer-review › Book chapter – Annual report year: 2002

Inventory and classification of LCA characterisation methods for assessing toxic releases.
Research output: Research › Report – Annual report year: 2002

Inventory of LCIA selection methods for assessing toxic releases. Methods and typology report part B
Research output: Research › peer-review › Book – Annual report year: 2002

LCA-uddannelse – en analyse af nuværende udbud og fremtidige behov for LCA-uddannelse
Research output: Research › Report – Annual report year: 2002
LCIA selection methods for assessing toxic releases
Research output: Research - peer-review  
Article in proceedings – Annual report year: 2002

Life Cycle Impact Assessment: Striving towards best practice
Research output: Research  
Conference abstract in proceedings – Annual report year: 2002

Two tools for environmentally conscious designers and product developers of electrical & electronic equipment (EEE)
Research output: Research - peer-review  
Article in proceedings – Annual report year: 2002

Waste related emissions scenarios for risk assessment of chemicals. Report to Danish Environmental Protection Agency
Research output: Research  
Report – Annual report year: 2002

Research output: Research  
Conference abstract in proceedings – Annual report year: 2001

Increasing the environmental relevance of life cycle impact assessment. In From basic science to decision-making
Research output: Research - peer-review  
Article in proceedings – Annual report year: 2001

Indicators for Ecotoxicity in LCIA – position paper for SETAC WIA2Task group on ecotoxicity.
Research output: Research - peer-review  
Article in proceedings – Annual report year: 2001

Life Cycle Assessment and Risk Assessment: A Methodological Comparison.
Research output: Research - peer-review  
Journal article – Annual report year: 2001

Livscyklusvurderinger - en kommenteret oversættelse af ISO 14040 til 14043
Research output: Research - peer-review  
Book – Annual report year: 2001

OMNIITOX – operational models and information tools for industrial applications of eco/toxicological impact assessments
Research output: Research - peer-review  
Article in proceedings – Annual report year: 2001

SETAC Europe working group on best available practice in life cycle impact assessment. In From basic science to decision-making
Research output: Research - peer-review  
Article in proceedings – Annual report year: 2001

The European Person Equivalent: Measuring the personal environmental space
Research output: Research - peer-review  
Article in proceedings – Annual report year: 2001

Waste related emission scenarios for risk assessment of chemicals. A background document for revision of the EU Technical Guidance Document on risk assessment of new and existing substances
Research output: Research  
Report – Annual report year: 2001

Estimating pesticide emissions for LCA of agricultural products
Research output: Research - peer-review  
Article in proceedings – Annual report year: 2000

Levels of sophistication in life cycle impact assessment of acidification: Points of discussion additional to the presentation
Research output: Research - peer-review  
Article in proceedings – Annual report year: 2000

Principles and methods for LCA
Research output: Research - peer-review  
Article in proceedings – Annual report year: 2000

Site characterisation of non-global impact categories
Research output: Research - peer-review  
Article in proceedings – Annual report year: 2000
Site-dependent life-cycle assessment of acidification, nutrient enrichment and ozone formation
Research output: Research - peer-review › Article in proceedings – Annual report year: 2000

Technical data for waste incineration - background for modelling of product-specific emissions in a life cycle assessment context
Research output: Research - peer-review › Report – Annual report year: 2000

UK: Levels of sophistication in life cycle impact assessment of acidification
Research output: Research - peer-review › Article in proceedings – Annual report year: 2000

Research output: Research - peer-review › Report – Annual report year: 2000

A new concept for fate modelling in life cycle toxicity assessment: Development and validation of the air module
Research output: Research › Article in proceedings – Annual report year: 1999

Best available practice regarding impact categories and category indicators in life cycle impact assessment
Research output: Research - peer-review › Journal article – Annual report year: 1999

Comparison of LCA with risk characterisation according to the principles of EU technical guidance document
Research output: Research › Article in proceedings – Annual report year: 1999

Environmental Design of Industrial Products (EDIP), anchoring of the life cycle concept in industry and society
Research output: Research - peer-review › Article in proceedings – Annual report year: 1999

"Less is better" and "only above threshold": Two incompatible paradigms for human toxicity in life cycle assessment
Research output: Research - peer-review › Journal article – Annual report year: 1999

Life cycle assessment
Research output: Research - peer-review › Book chapter – Annual report year: 1999

Life cycle assessment (LCA) - Danish contributions to the development of the methodology
Research output: Research › Article in proceedings – Annual report year: 1999

Life Cycle Assessment, risk assessment and environmental impact assessment; complementary tools supporting different decision-contexts
Research output: Research › Article in proceedings – Annual report year: 1999

Life Cycle Design - a Route to the Sustainable Industrial Culture?
Research output: Research - peer-review › Journal article – Annual report year: 1999

Life cycle impact assessment - Danish recommendations
Research output: Research - peer-review › Article in proceedings – Annual report year: 1999

Site-dependent life cycle impact assessment of human toxicity from air emissions
Research output: Research › Article in proceedings – Annual report year: 1999

The need and feasibility of inclusion of spatial information in characterisation of ecotoxicity
Research output: Research › Article in proceedings – Annual report year: 1999
The structure of life cycle impact assessment
Research output: Research - peer-review › Journal article – Annual report year: 1999

A generic method for location-dependent assessment and comparison of the acidifying impact from individual sources
Research output: Research › Article in proceedings – Annual report year: 1998

Assessing Toxicological Impacts in Life-Cycle Assessment
Research output: Research - peer-review › Journal article – Annual report year: 1998

Comparison of the acidifying impact from emissions with different regional origin in life-cycle assessment
Research output: Research - peer-review › Journal article – Annual report year: 1998

Elements in a new sustainable industrial culture - Environmental assessment in product development
Research output: Research - peer-review › Journal article – Annual report year: 1998

Elements in a new sustainable industrial culture - Environmental assessment in product development
Research output: Research - peer-review › Article in proceedings – Annual report year: 1998

Environmental Assessment of Products, Volume 2: Scientific Background
Research output: Research - peer-review › Book – Annual report year: 1998

Environmental considerations in product development
Research output: Research - peer-review › Book – Annual report year: 1998

Estimation of product specific emissions from municipal solid waste landfills for the inventory phase in LCA
Research output: Research - peer-review › Article in proceedings – Annual report year: 1998

Human toxicity as a criterion in the environmental assessment of products
Research output: Research - peer-review › Book chapter – Annual report year: 1998

Industrial ecology starting with the product perspective: experience at the Technical University of Denmark
Research output: Research - peer-review › Article in proceedings – Annual report year: 1998

Product specific emissions from municipal solid waste landfills: 2. Presentation and verification of the computer tool LCA-LAND
Research output: Research - peer-review › Journal article – Annual report year: 1998

Product specific emissions from municipal solid waste landfills: 1. Landfill model
Research output: Research - peer-review › Journal article – Annual report year: 1998

Reducing the discrepancy between predicted impacts and actual impacts in LCA
Research output: Research › Article in proceedings – Annual report year: 1998

Site-dependent life-cycle assessment of acidification
Research output: Research › Article in proceedings – Annual report year: 1998

Site-dependent life-cycle impact assessment of acidification
Research output: Research - peer-review › Journal article – Annual report year: 1998
Electrohydraulic control unit from Danfoss A/S
Research output: Research - peer-review > Book chapter – Annual report year: 1997

Elements in a new sustainable industrial culture - Environmental assessment in product development
Research output: Research - peer-review > Article in proceedings – Annual report year: 1997

Elements in a new sustainable industrial culture - Environmental assessment in product development
Research output: Research - peer-review > Article in proceedings – Annual report year: 1997

Environmental assessment in product development
Research output: Research - peer-review > Journal article – Annual report year: 1997

Environmental Assessment of Products, Volume 1: Methodology, tools and case studies in product development
Research output: Research - peer-review > Book – Annual report year: 1997

Predicted environmental impact and expected occurrence of actual environmental impact. Part I: The linear nature of environmental impact from emissions in life cycle assessment.
Research output: Research - peer-review > Journal article – Annual report year: 1997

Predicted environmental impact and expected occurrence of actual environmental impact. Part II: Spatial differentiation in life cycle assessment via the site-dependent characterisation of environmental impact from emissions.
Research output: Research - peer-review > Journal article – Annual report year: 1997

Refrigerator from Gram A/S
Research output: Research - peer-review > Book chapter – Annual report year: 1997

Site-dependent life-cycle impact assessment of acidification.
Research output: Research > Article in proceedings – Annual report year: 1997

Background for the environmental assessment of products, (in Danish)
Research output: Research - peer-review > Book – Annual report year: 1996

Discussion of general principles and guidelines for practical use
Research output: Research - peer-review > Article in proceedings – Annual report year: 1996

Environmental Assessment Methods
Research output: Research - peer-review > Book chapter – Annual report year: 1996

Environmental assessment of products
Research output: Research - peer-review > Book – Annual report year: 1996

Environmental Design
Research output: Research - peer-review > Book chapter – Annual report year: 1996

Global warming as assessment criterion in environmental assessment of products
Research output: Research - peer-review > Book chapter – Annual report year: 1996

Impact assessment of human and ecotoxicity in life cycle assessment
Research output: Research - peer-review > Article in proceedings – Annual report year: 1996

Impact assessment of non toxic pollution in life cycle assessment.
Research output: Research - peer-review > Article in proceedings – Annual report year: 1996
Life-Cycle Assessment
Research output: Research - peer-review › Book chapter – Annual report year: 1996

Spatial aspects of human toxicity in life cycle impact assessment
Research output: Research › Article in proceedings – Annual report year: 1996

The Dobris assessment of the state of the environment in Europe
Research output: Research › Journal article – Annual report year: 1996

Environmental tools in product development
Research output: Research - peer-review › Article in proceedings – Annual report year: 1994

Projects:

REACH-4-USEtox
Project: Research

Project: Research

Assessing the absolute environmental sustainability of products and systems
Project: PhD

Sustainability Impact Assessment for Circular Economy
Project: PhD

Climate tipping indicators for improved environmental sustainability assessment of bioplastics
Project: PhD

Environmental Sustainability Assessment of Advanced Agricultural Waste Technologies and Agricultural Territories
Project: PhD

Environmental Substainavility Assessment of Advanced Agricultural Waste Technologies and Agricultural Territories
Project: PhD

Environmental sustainability assessment of the aquaculture sector at global and national scales
Project: PhD

Hybrid Life-cycle-assessment-urban-metabolism model as a framework for quantifying the contributions of urban agriculture to the sustainability of urban food system
Project: PhD

Afværgestrategier for in-situ oprensning af chlorerede opløsningsmidler - udvikling af ramme for livscyklusvurdering og cost-effectiveness nalyse
Project: PhD

Bæredygtig produktion - vurdering af den sociale og miljømæssige dimension
Project: PhD
Inddragelse af sociale, sundheds- og sikkerhedsmæssie aspekter i livscyklusvurdering af produkter og servideydelser  
**Project: PhD**

Miljøvurdering af restprodukters genanvendelse  
**Project: PhD**

Kemikalieorienteret produktmiljøvurdering  
**Project: PhD**

Modeller til miljøvurdering af affaldssystemer  
**Project: PhD**

Absolut miljømæssig bæredygtighed af industrielle aktiviteter  
**Project: PhD**

Development of environmental footprints for large-scale systems  
**Project: PhD**

Effective Implementation of Sustainability Approaches  
**Project: PhD**

Life-cycle assessment of climate adaption technologies for stormwater management  
**Project: PhD**

Integrating Supply Chain Hot Spot Analysis and Business Risk Management  
**Project: PhD**

Water Supplies' Water Footprint  
**Project: PhD**

Integration of boundaries for selected planetary threads into life cycle assessment  
**Project: PhD**

Environmental sustainability assessment of bio-products based on agricultural crop and crop residue feedstocks  
**Project: PhD**

Eco-design 2.0 - Quantitative Eco-design within Drives and Automation Technologies  
**Project: PhD**

Sustainable Management of Water Treatment Technologies  
**Project: PhD**

Environmental assessment of biomass based materials  
**Project: PhD**

Arealanvendelse og toksikologi i konsekvens-LCA  
**Project: PhD**

Integration of Environmental Life Cycle Information Into Cad-Systems for Support of Design for Environment  
**Project: PhD**
Development of a Flexible Bioprocess for Handling and Recycling Seasonal Industrial Wastewaters  
Project: PhD

Development of a Life Cycle Impact Assessment methodology for Brazil  
Project: PhD

Development of a methodology for inclusion of terrestrial ecotoxic impacts of metals in life cycle impact assessment  
Project: PhD

Supply chain modelling for professionally prepared meals  
Project: PhD

Kemikalieorienteret produktvurdering  
Project: PhD

An integrated Multi-level Framework for Life Cycle Sustainability Assessment Case study: Production of High-grade Concrete from Construction and Demol  
Project: PhD

New high-quality mined nanomaterials mass produced for plastic and wood-plastic nanocomposites  
Project: PhD

Life cycle assessment applied to nanomaterials in solid waste management - Focus on human health impact assessment  
Project: PhD

Waste Management Strategies of the Future: A Consistent European and National Technology Platform  
Project: PhD

Livscyklus- og risikoanalyse af alternative teknologier og ressourcer til drikkevandsforsyningen  
Project: PhD

Life cycle impact assessment of long-term emissions from landfills  
Project: PhD

Development and application of a standardized methodology for the PROspective SUstainability assessment of Technologies  
Project: PhD

Modelling of pesticide emissions for Life Cycle Inventory analysis: model development, applications and implications  
Project: PhD

Sustainable assessnebt of full chain bioenergy production  
Project: PhD

Development of a Sustainability Assessment method for robotic manufacturing systems  
Project: PhD

Formation of Life Cycle Inventory (LCI) Database for Crude Palm Oil Production and Palm Oil Based Bio-diesel Refining in Malaysia  
Project: PhD
Environmental Sustainability Assessment of Biodiesel Production
Project: PhD

Quantifying the Sustainability of Consumer Products: Focusing on Chemical Exposures
Project: PhD

Impacts of waterbone nitrogen emissions to hypoxia-driven marine eutrophication: modelling of damage to ecosystems in life cycle impact assessment (LCIA)
Project: PhD

Advanced planning approaches for small- and medium-sized enterprises
Project: PhD

Dynamic optimization of total value and environmental performance: Use of real time property data for improved Facilities Management
Project: Research

Automation and Robotics for EUropean Sustainable Manufacturing
Project: Research

LC-IMPACT: Development and application of environmental Life Cycle Impact assessment Methods for imProved sustainability Characterisation of Technologies
Project: Research

Development of genetically modified cereals adapted to the increased CO2 levels of the future
Project: Research

Assessment of sustainable wastewater handling in sewerless settlm.
Project: Research

LCA-method development and consensus creation - Inclusion of spatial information in life cycle impact assessment
Project: Research

LCAGAPPS - Development and application of complementary components to the existing detailed life cycle assessment methodology
Project: Research

Waste prevention, waste policy and innovation
Project: Research

Climate damage modeling in LCA – quantitative sustainability assessment of future technologies
Project: Research

LCA and residual products
Project: Research

Pesticide dispersion model
Project: Research

LCA method development and consensus
Project: Research
LCA Malaysia  
Project: Research

LCA-center Denmark  
Project: Research

Spatial differentiation in life cycle assessment  
Project: Research

LCAGAPS  
Project: Research

Operational Models aNd Information tools for Industrial applications of eco/TOxicological impact assessments  
Project: Research

Activities:

Operationalize Planetary Boundaries in LCA Workshop  
Activity: Talks and presentations › Conference presentations

Pelliston(TM) workshop on "Global guidance on environmental life cycle impact assessment indicators, 2nd round"  
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

25th CIRP Life Cycle Engineering (LCE) Conference  
Activity: Attending an event › Participating in or organising a conference

Interactive Session on "How can the Life Cycle Engineering community contribute to meet the UN's Sustainable Development Goals?"  
Activity: Attending an event › Participating in or organising a conference

Marine Plastics Value Chain Mapping, Plastic Losses, and Hotspots  
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Better but is it good enough? Absolute sustainability requirements and how they challenge the food sector  
Activity: Talks and presentations › Conference presentations

Sustainability assessment of stormwater management systems and the importance of pollutants in runoff  
Activity: Talks and presentations › Conference presentations

Learning by doing – Experience from 20 years of teaching LCA to future engineers  
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Integrating environmental impacts into cost-benefit analysis- The value of environmental pollutants  
Activity: Talks and presentations › Conference presentations

Integrating environmental impacts into cost-benefit analysis- The value of environmental pollutants  
Activity: Talks and presentations › Conference presentations

Applying LCA in decision making- the need and the future perspective  
Activity: Talks and presentations › Conference presentations
Applying LCA in decision making - the need and the future perspective
Activity: Talks and presentations › Conference presentations